

Kongiganak Improved Airfoil for Wind Turbines**FY2022 Request:****\$108,000****Reference No:****63449****AP/AL:** Allocation**Project Type:** Energy**Category:** Development**Location:** Kongiganak**House District:** Lower Kuskokwim (HD 38)**Impact House District:** Lower Kuskokwim (HD 38)**Contact:** Curtis Thayer**Estimated Project Dates:** 07/01/2021 - 06/30/2026**Contact Phone:** (907)771-3000**Appropriation:** Alaska Energy Authority - Round XIII Renewable Energy Project Grants (AS 42.45.045)**Brief Summary and Statement of Need:**

The Puvurna Power Company will retrofit the turbine blade sets on two of the existing Windmatic 17S wind turbines. The improved blades restrain peak power for greater drive train life; have reduced sensitivity to turbulence; and significantly improve annual energy production, by and estimated 30%. The retrofit of existing turbines with the advanced Solar Energy Research Institute (SERI) thin airfoils also serves as a test case for the potential upgrade of other aging wind turbines in rural Alaska. An in-kind match of \$9,000 will be provided.

Funding:	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
1210 Renew Ener	\$108,000						\$108,000
Total:	\$108,000	\$0	\$0	\$0	\$0	\$0	\$108,000

<input type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> Ongoing
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Prior Funding History / Additional Information: